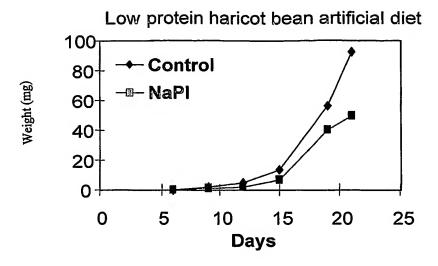


Figure 1

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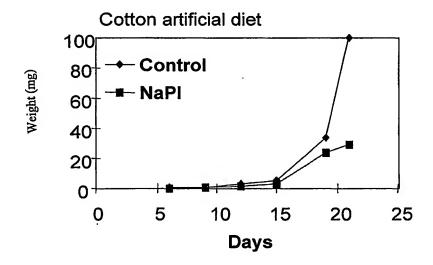


Figure 2A

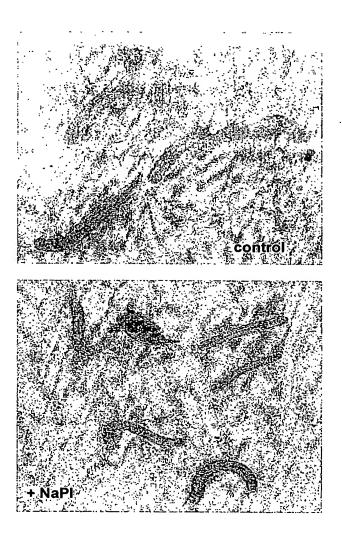
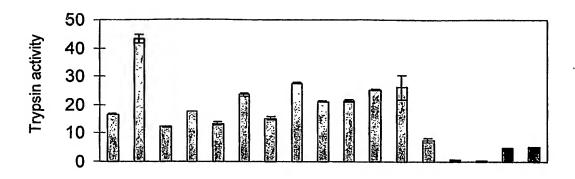


Figure 2B



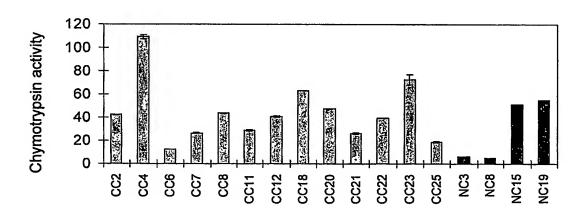
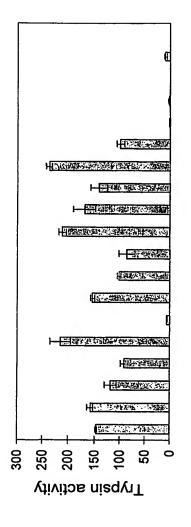


Figure 2C



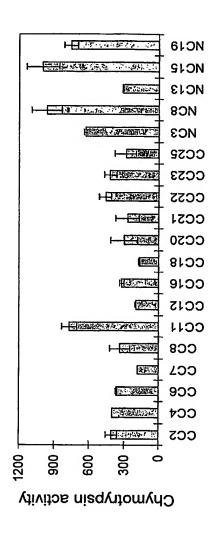


Figure 2D

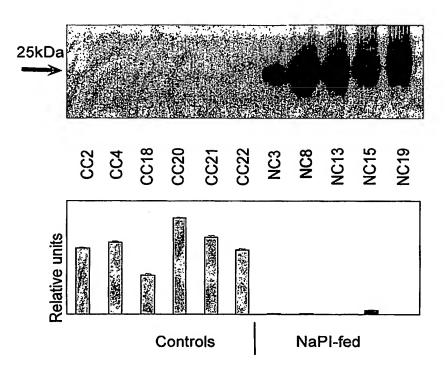
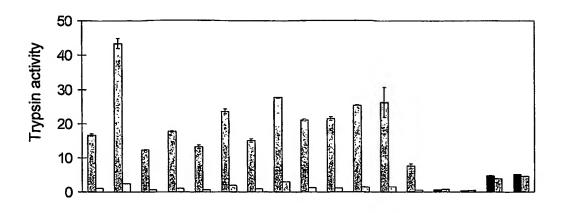


Figure 2E



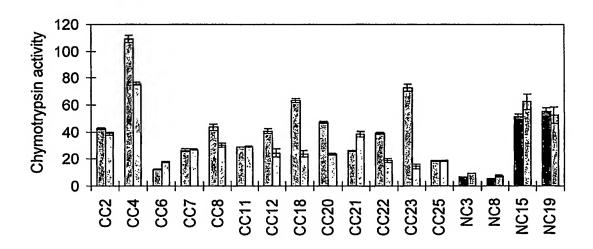


Figure 2F

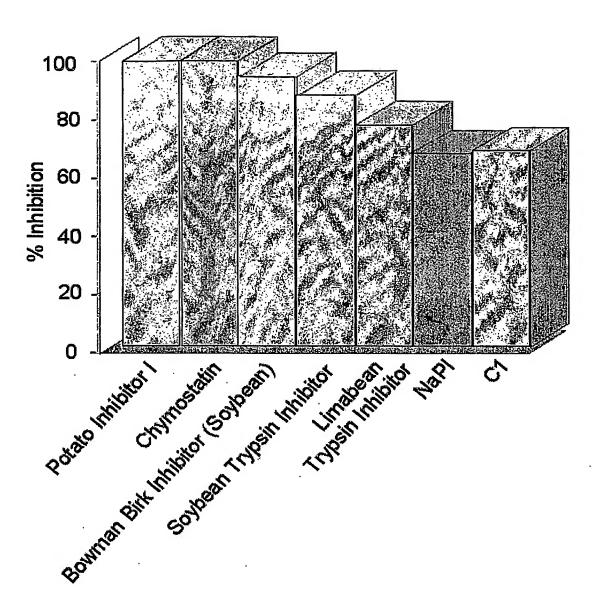


Figure 3

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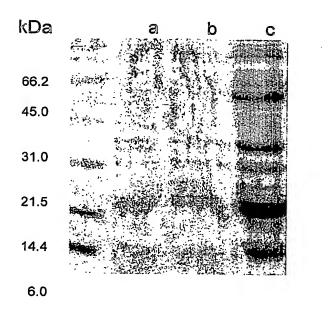


Figure 4A

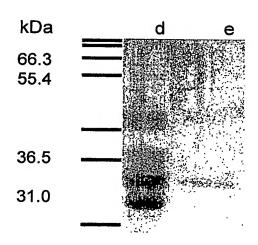


Figure 4B

21.5 HpCHY1 IVGGSTSSLGATPYQ

Figure 4C

i Rech1a IVGGSLSSVGQIPYQAGLVIDLAGGQAVCGGSLISA
Rech1b IVGGSISSIGQIPYGAGLVIDFAGGQAVC
Rech1c IVGGSTSSVGQFPYQAGLLASFAGGQAVC
Rech1d IVGGSVTTLDAYPTIAGLVYNFAGGQAVC

Figure 5

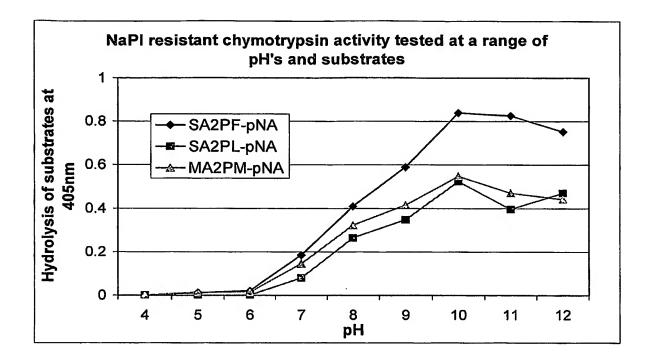


Figure 6

CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	MKLLAVTLLAFAAVVSARNIDLEDVIDLEDITAYDYHTKIGIPLAEKIRALAVTLLAFAAVVSARNIDLEDVIDLEDITAYDYHTKIGIPLAEKIRA MKLLAVTLLAFAAIVSARNIDLEDVIDLEDITAYDYHTKIGIPLAEKIRAINHEAVVDLEDITAYGYHTKVGIPLAEEIRI MKLFLGVCLTLAVAVSAVEIATPDADSPVFGYHAKFGIAEAARIKS
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	FWY79→ FWG1→ AEEEAERNPSRIVGGSTSSLGAFPYQAGLLATFASGQGVCGGSLLNNRRV AEEEAERNPSRIVGGSTSSLGAFPYQAGLLATFASGQGVCGGSLLNNRRV AEEEAERNPSRIVGGSISSLGAFPYQAGLLATFASGQGVCGGSLLNNRRV AELEASRNPSRIVGGSSASLGQFPYQAGLLINLPLGQSVCGGSLLNQRRV AEEVQSFNGQRIVGGSITNIANVPYQAGLVITIFIFQSVCGASLISHNRL
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	LTAAHCWFDGRNQARSFTVVLGSVRLFSGGTRLNTASVVMHGSWNPNLIR LTAAHCWFDGRNQARSFTVVLGSVRLFSGGTRLNTASVVMHGSWNPNLIR LTAAHCWFDGRNQARSFTVVLGSVRLFSGGTRLNTASVVMHGSWNPNLIR LTAAHCWFDGRNQANSLTVILGSINLYFGGTRLNSNSVVMHGSWNPNLIR VTAAHCKSDGVLTANSFTVVLGSNTLFFGGTRINTNDVVMHPNWNPNTAA LTAAHCLANRITFVVRFGLTNLTRPEILVESANKYIHPDYDEIRAG-VQT
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	NDIAMINLPSNVATSGNIAPIALPSGNELNNNFNGATAVASGFGLARD NDIAMINLPSNVATSGNIAPIALPSGNELNNNFNGATAVASGFGLARD NDIAIINLPSNVATSGNIAPIALPSGNELNNNFNGATAVASGFGLAND NDIAIINLPSNVGTSNNIAPIALPSGNELNNQFAGFTATASGFGRTRD NDIAVLRISS-VSFSNVIQPIALPSGDELNNLFVGANALASGFGRTSD ADLALVGLDHHIEYSANVQPSRLMSSAQKNINYEGIQMIVSGFGRTDD
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	FWY72→ GGSVDGNLRHVNLPVITNAVCTVSFP-GIIQSS-NICTSGANGRS GGSVDGNLRHVNLPVITNAVCTVSFP-GIIQSS-NICTSGANGRG GGSVDGNLRHVNLPVITNAVCTVSFP-GIIQSS-NICTSGANGRS GGSVSPTLNHVNLPVITNNVCWQSFP-LYIQSS-NICTSGANGRS SGSIGTN-QQLSSVTIPVITNAQCAAVYGSGFVHAS-NICTSGAGGKG LWNGGAASEILLWVYQRGVSNEECLRWYPTSQVIKEETICAGYWDNPSQS
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	←RVG4 TCQGDSGGPLVVTSN-NRRILIGVTSFGSARGCQVGSPAAFARVTSFISW TCQGDSGGPLVVTSN-NRRILIGVTPFGSARGCQVGSPAAFARVTSFISW TCQGDSGGPLVVTSN-NRRILIGVTSFGSARGCQVGSPAAFARVTSFISW TCQGDSGGPLVVTSN-NRRILIGVTSFGSDRGCQVGAPAAFARVTSYISW TCNGDSGGPLAVDSN-NRKILIGVTSYGAQAGCAAGFPAAFARVTSFVDW SCQGDSGGPLTIIDADGERTQVGIVSFGSTAGCNSPFPSGYVRPGHYHDW
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	RVY72 INQRL INQRL INQRL INNLL INQRL FTEVTGINFDWDSDAIIPGSSESSSESSEPSSESSEEDGANPSSS
CAA72966 CAA72959 CAA72960 CAA72958 CAA72952 CAA72951	EEDGSNPSSEEDAGSPPSEEEEAPEKVRVVEY

Figure 7

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Primer Name	•	equence 5'-3'
FWG1		(GCT) GTC [SEQ ID NO:38]
RVG4	TCT GGC GAA GGC AG	GC AGG [SEQ ID NO:39]
Y79Fw	CTG CTA GCC TCG GA	AC AAT TC [SEQ ID NO:40]
Y72Fw	CTG GAG TGC AGA CT	G CTG AC [SEQ ID NO:41]
Y72Rv	GGA TGA TGG CGT CO	GC TGT CC [SEQ ID NO:42]

Figure 8

HpF1Apcr HpF1Bpcr HpF2Apcr HpF3pcr HpF4pcr	PYQAGLVITIFIFQSVCGASLIPHNRLVTAAHCKSDGVLTANSFTVVLGS PYQAGLVITIFIFQSVCGASLISHNRLVTAAHCKFDGVMTANSFTVVLGS PYQAGLLANFASGQGVCGGSLLNQRRVLTAAHCWFDGRNQARSFTVVLGS ASLGQFPYQAGLLINLPLGQSVCGGSLLNQRRVLTAAHCWFDGRNQATSLTVILGS	50 50 50 57
HpF1Apcr HpF1Bpcr HpF2Apcr HpF3pcr HpF4pcr	NTLFFGGTRINTNDVVMHPNWNPSTAANDIAVMRISS-VSFSNVIQPIAL NTLFFGGTRINTNDVVMHPNWNPSTVANDIAVIRISS-IVFNNVIQPIAL VRLFSGGTRLDTASVVMHGSWNPNLIRNDIAMINLPSNVATSGNIAPIAL INLFFGGTRLNSNSVVMHGSWNPNLIRNDIAIINLPSNVGTSGNIAPIAL	99 99 100 100 28
HpF1Apcr HpF1Bpcr HpF2Apcr HpF3pcr HpF4pcr	PSGDELNNLFVGANALASGFGRTSDGGSIGSNQQ-VSSVTIPVITNDECA PSGDELNNLFVGANALASGFGRTSDSGGIGTNQQ-LSSVTIPVITNAECA PSGNELNNNFNGATATASGFGLARDGGSVDGNLRHVNLPVITNAVCT PSGNELNNQFAGFTATASGFGLTRDGGNVSPTLNHVNLPVITNNVCW MSSAQKNINYEGIQMIVSGFGRTDDLWNGGAASEILLWVYQRGVSNEECL	148 148 147 147 78
HpF1Apcr HpF1Bpcr HpF2Apcr HpF3pcr HpF4pcr		194 194 177 192 128
HpF1Apcr HpF1Bpcr HpF2Apcr HpF3pcr HpF4pcr	SYGAQAGCAAGLPAAFARKSYGAADGCAAGFPAASPERSYGAADGCAAGFPAASPERSFGSDRGCQVGAPAAFARSFGSTAGCNSPFPSGYVRPGHYHDWFTEVTGINFDWDSDAII	213 213 210 120
	· · · · · · · · · · · · · · · · · · ·	

Figure 9

HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A	MKLFLGVCLA MKLLAVTLLA MKLLAVTLLA		-VEIGTPDAD -VEIGTPEAG DLEDVIDLED DLEDVIDLED	SPVFGYHAKF SPVFGYHAKF ITAYDYHTKI ITAYDYHTKI	GIPEAARIKS GIAEAARIKS GIPLAEEIRA GIPLAEKIRA	33 46 50 50
HpCh4I HpCh4II	MAAAYLLGLL MAAAYLLGLL	FVLGYVQGGL FVLGYVQGGL	LNADPAIIED LNADPAIIED	LRDA LRDA	Φ	34 34
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	AEEVQSFNGQ AEEVQSFNGQ AEEEAERDPS AEEEAERNPS EFSSGS EFSSFS	RIVGGSITDI RIVGGSITNI RIVGGSTSSL RIVGGSTSSL -IVGGSSASL RIVAGWPAVE	GAFPYQAGLL GQFPYQAGLL GQIPYQGSLR	ITIFIF-QSV ITIFIF-QSV ANFASG-QGV ASFASG-QGV INLPLG-QSV MVSAIGGVSS MVSAIGGVSS	CGASLISHNR CGASLISHNR CGGSLLNQRR CGGSLLNQRR CGGSLLNQRR CGCSLIHNKW CGCSLIHNKW	82 95 99 99 38 80 80
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	LVTAAHCKSD LVTAAHCKFD VLTAAHCWFD VLTAAHCWFD VLTAAHCWFD VLTAAHCLAN VLTAAHCLAN		VLGSNTLFFG VLGSVRLFSG VLGSVRLYSG ILGSINLFFG RFGLTNLTRP	GTRINTNDVV GTRINTNDVV GTRLDTASVV GTRLNTASVV GTRLNSNSVV EILVESTNKY	MHPNWNPS MHPNWNPS MHGSWNPN MHGSWNPN MQGSWNPN IHPEYDEIRA IHPEYDEIRA	130 143 147 147 86 126 126
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	TAANDIAVM -TVANDIAVI -LIRNDIAMI -LYRNDIAMI -LIRNDIAII GVQTADLALV GVQTADLALV	RISS-VSFSN RISS-IVYNN NLPSNVATSG NLPSNVATSG NLPSNVGTSG GLDHEIEYSA GLDQEIEYSA		DELNNLFVGA DELDNLFVGA NELNNNFNGA NELNNQFAGA NELNNQFAGF AQKNINYEGI AQKNINYEGI	NALASGFGRT NALASGFGRT TATASGFGLA TATASGFGLA TATASGFGLT QMIVSGFGRT QMIVSGFGRT	178 191 196 196 135 176 176
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	SDGGSIGSNQ SDSGGIGTNQ RDGGSVDGN- RDGGVIDGN- RDGGNVSPT- DDLWNGGAAS DDLWNGGAAS	Q-VSSVTIPV Q-LSSVTIPV LRHVNLPV LRHVNLPV LNHVNLPV EILLWVYQRG EILLWVYQRG	ITNAECAAVY ITNAVCTVSF ITNAVCSQSF ITNNVCWQSF VSNEECLRWY	GS-AFVHSSN GP-AFVHDTN PGIIQSSN PGLIQASN PLYIQSTN PTSQVIKEQT PTSQVIKEQT	ICTSGAGG ICTSGANG VCTSGANG ICTSGANG ICTSGANG ICAGYWDNPS ICAGYWDNPS	224 237 239 239 178 226 226
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	RGTCQGDSGG QSSCQGDSGG QSSCQGDSGG	PLVVNSNNRR PLVVNSNNRR PLVVTSNNRR PLTIIDADGE PLTIIDADGE	IL-IGVTSYG IL-IGVTSFG IL-IGVTSFG IL-IGVTSFG RTQSRYCELR RTQVGIVSSD	SARGCQVG SARGCQVG SDRGCQVG IHCWNA PLLDATVHSP	APAAFAR -AHSPQGYVR RVTSPGHYHD	268 281 283 283 222 272 276
HpCh1AI HpCh1BI HpCh2A HpCh2B HpCh3A HpCh4I HpCh4II	PGHYHDWFTE	Q Q RL RL VTGINFDWDS LGQRRHYPDS	DATTP			279 292 295 295 234 297 326

Figure 10A

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HpCh1AI	COPPREPTRT				279
HpCh1BI					292
HpCh2A					295
HpCh2B					295
HpCh3A	~				234
HpCh4I					297
HpCh4II	COPPREPTRT	VPTHLPRRTL	AAPPSEEEA	PEKVRVVEY	365

Figure 10B

		F1 F2
[SEQ ID NO:55]	Rech1a	IVGGSLSSVG QIPYQAGLVI DLAGGQAV~C GGSLISA
[SEQ ID NO:56]	Rech1b	IVGGSTSSVG QFPYQAGLLA SFAGGQAV~C G
[SEQ ID NO:57]	Family1a	IVGGSITDIA NVPYQAGLVI TIFIFQSV~C GASLISHN
[SEQ ID NO:58]	Family1b	IVGGSITNIA NVPYQAGLVI TIFIFQSV~C GASLISHN
[SEQ ID NO:59]	Family2a	IVGGSTSSLG AFPYQAGLLA SFASGQGV~C GGSLLNVR
[SEQ ID NO:60]	Family2b	IVGGSTSSLG AFPYQAGLLA NFASGQGV~C GGSLLNQR
[SEQ ID NO:61]	Family3	IVGGSSASLG QFPYQAGLSL IY~SGQSV~C GGSLLNQRR
[SEQ ID NO:62]	Family4	IVAGWPAVEG QIPYQGSLRM VSAIGGVSSC GCSLIHN

Figure 11A

	N-terminal sequence of resistant chymotrypsin (Rech 1a)
1	F1 F2 VGGSLS <u>SVGQIB</u> YQAGL <u>VIDLAGG</u> QAVCGGSLISA [SEQ ID NO:9]
Primer Name	Oligonucleotide sequence 5'-3'
Fw2ResChy = F1	TC(AGCT) GT(AGCT) GG(AGCT) CA(AG) AT(ACT) CC [SEQ ID NO:10]
FwResChym = F2	GT(AGCT) AT(ACT) GA(CT) CT(AGCT) GC(AGCT) GG(AGCT) GG [SEQ ID NO:11]

Figure 11B

<i>HpCHF5</i>	GTTCACCTCGAGGATTCTATTGATCTGGAAGATATTACCGCTTGGGGATA	50
	V H L E D S I D L E D I T A W G Y	
-40	-24	
<i>H</i> pCHF5	CCTCACCAAATTCGGTATTCCAGAAGCTGAGAAAATCCGCAACGCTGAAG	100
	LTKFGIPEAEKIRNAE -8	
$H_{\mathcal{P}}CHF5$	AAGCTAGCTCTGCTAGCAGGATCGTCGGTGGTTCATTGTCCAGTGTCGGA	150
	E A S S A S RAT V G G G S L S V G G + 10)
<i>HpCHF5</i>	<u>CAGATCC</u> CTTACCAGGCTGGTCTCGTCATTGACTTAGCAGGTGGCCAGGC	200
	CAGATCCCTTACCAGGCTGGTCTCGTCATTGACTTAGCAGGTGGCCAGGC	
HpCHF5	TGTCTGCGGAGGCTCCCTGATCAGCGCTTCCCGCGTACTGACCGCTGCTC	250
	V CAG GAS VIIIS A S R V L T A A	
II OITE	A CITICOL COLUMN COLOR C	
<i>HpCHF5</i>		300
	H C W F D G Q N Q A W R F T V V L	
HpCHF5	"GGTTCCACCACCTTGTTCTCTGGCGGTACCAGAATCCCTACATCCAATGT	350
-	G S T T L F S G G T R I P T S N V	550
<i>HpCHF5</i>	TGTTATGCACGGAAGCTGGACTCCTAGCCTTATCCGTAACGATGTTGCCG	400
	V M H G S W T P S L I R N D V A	
HpCHF5	# # # # # # # # # # # # # # # # # # # #	
прешез	TAATCAGATTGGGCACCAACGTAGCAACCTCAAACACCATTGCCATCATC V I R L G T N V A T S N T I A I I	450
	VIRLGINVATSNTIAII	
HpCHF5	GCTCTACCCAGCGGCAGCCAGATCAACGAGAACTTCGCCGGTGAAACCGC	500
	ALPSGSQINENFAGETA	
	Comagaanaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa	
HpCHF5	CCTCGCCTCCGGCTTCGGTCTCACCAGTGACACCGGCAGCATCTCCAGCA L A S G F G L T S D T G S I S S	550
	LASGFGLTSDTGSISS	
HpCHF5	ACCAGGCTCTGAGCCACGTCAACCTGCCAGTGATCACCAACGCTGTGTGC	600
_	N Q A L S H V N L P V I T N A V C	000
<i>HpCHF5</i>	AGAAATTCATTCCCCCTGCTGATCCAGGACTCTAACATTTGCACCAGCGG	650
	RNSFPLLIQDSNICTSG	
HpCHF5	TGCCAACGGCAGGAGCACTTGCCGCGGTGACTCCGGCGGTCCTCTCGTCG	700
1150111	A N G R S T C R G D S G G P L V	700
	S #	
<i>HpCHF5</i>	TCACCAGGAACAACAGACCACTCTTGATCGGTATCACCTCTTTCGGATCT	750
	V T R N N R P L L I G I T S F G S	
HpCHF5	GCCCGCGGTTGCCAAGTTGGATCTCCCGCTGCCTTCGCCAGAGTCACCTC	800
	A R G C Q V G S P A A F A R V T S	
HpCHF5	TTACATCAGCTGGATCAACGGCCAGCTCTAAAATATCGAACATTTTGCCA	0 F A
	Y I S W I N G Q L *	000
<i>HpCHF5</i>	TATCTACAGAGATATTTTGAAATACGTTAATTTAAATAAA	900
HpCHF5		021

Figure 12

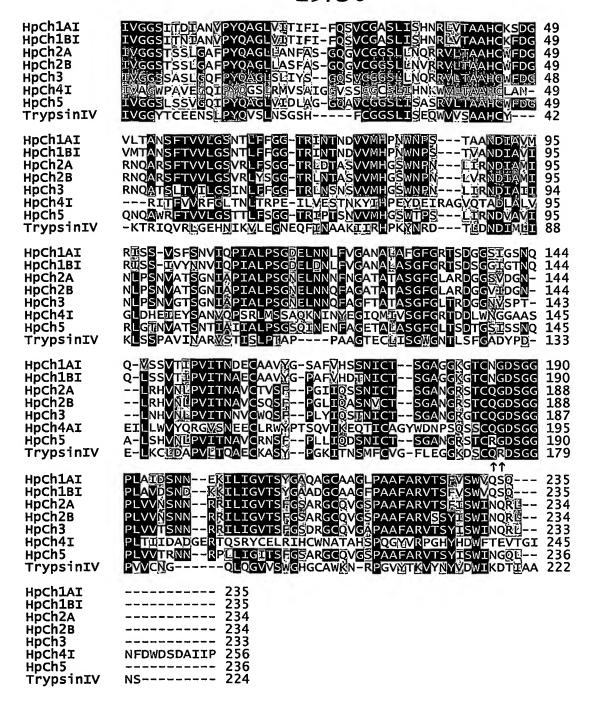


Figure 13

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[SEQ ID NO	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		DITAWGYLTK	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		QIPYQAGLVI	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		NQAWRFTVVL	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		DVAVIRLGTN	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		GFGLTSDSGS	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA	_	SNICTSGANG	
	DH04_H02 ARMIGERA RECH1A PUNCTIGERA		ARGCQVGSPA	_

Figure 14

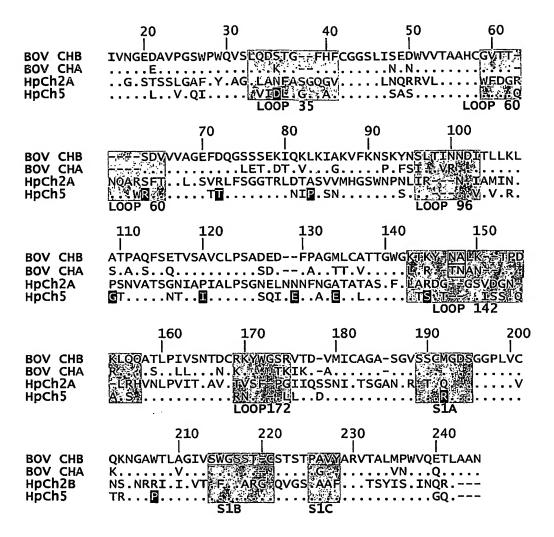


Figure 15

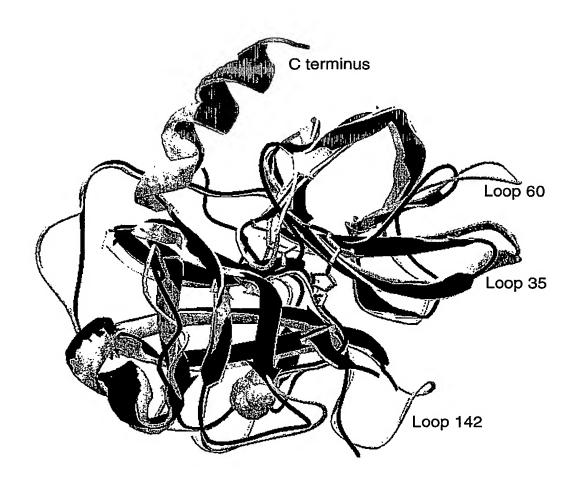


Figure 16



Figure 17

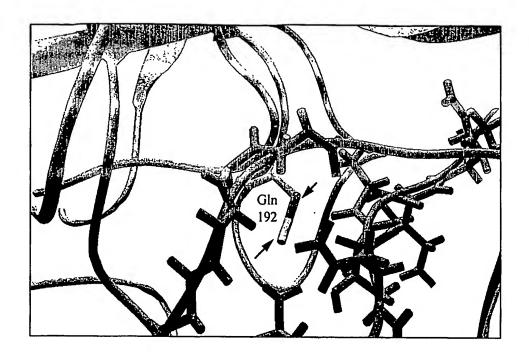


Figure 18A

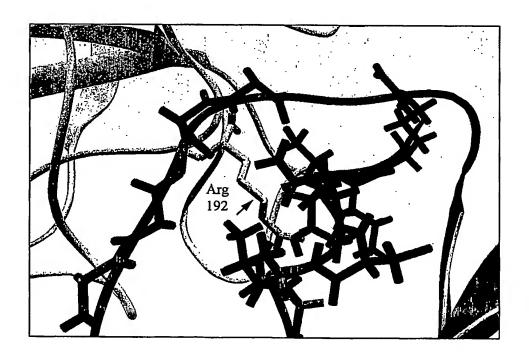


Figure 18B

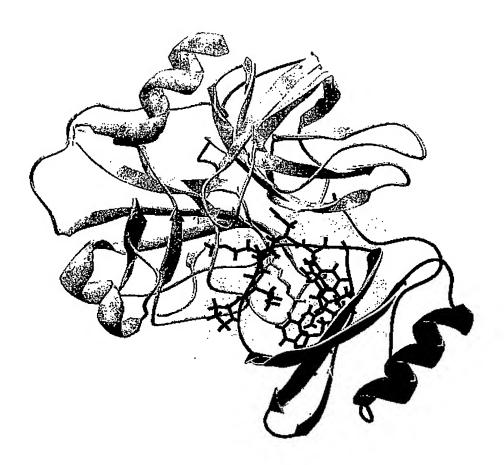


Figure 19A



Figure 19B

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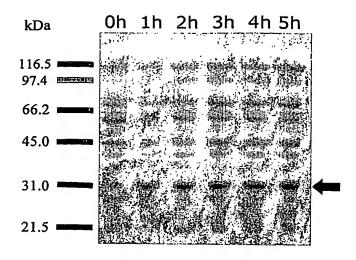


Figure 20A

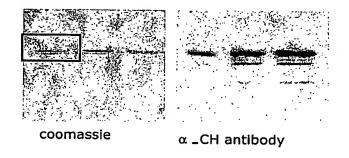


Figure 20B

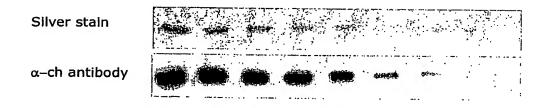


Figure 20C

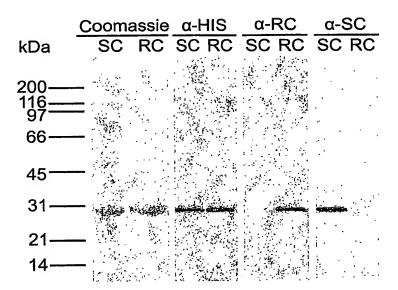


Figure 21

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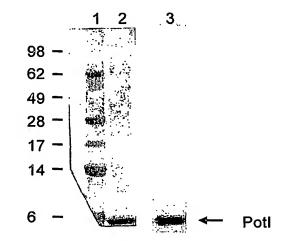


Figure 22A

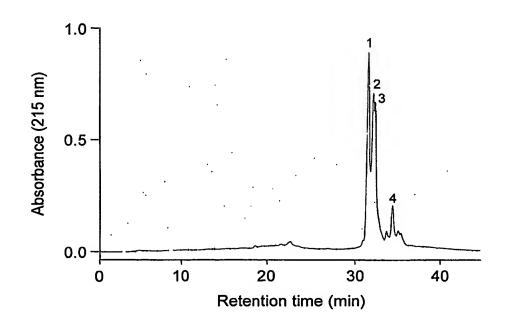


Figure 22B

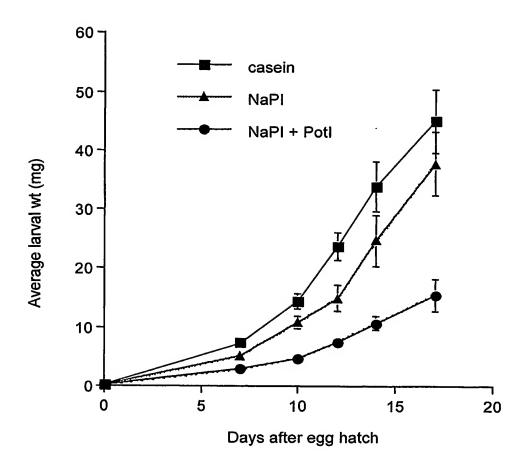


Figure 23

1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE CNGKOFNPEHLGVETK: 56 1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE CNGKOFNPEHLGVETK: 56 1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE CNGKOFNPEHLGVETK: 20 1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE CNGKORNPEHLGVETK: 56 1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE SNGKGKOFNPEHLGVETK: 60 1: MESKFAH FINVEFULATSFETIMARKESDGPEVÜEFLKEBE SNLMCEGKOMMPEHLGVETK: 60 1: MVKFAH VANABLLATSFETIMARKESDGPEVÜEFLKEBE SNLMCEGKOMMPEHLGVETK: 60 1: MVKFAH VANABLLATSFETIMARKESDGPEVÜEFLKEBE SNLMCEGKOMMPEHLGGTEAK: 56 1: MVKFAH VANABLLATSFETIMARKESDGPEVÜEFLKEBE SNLMCER SN	57: LAKETIEKENSLINNVOILINGSPVTÄDERCNRVRLEDNILG. SVVOHPRVR: 107 57: LAKETIEKENSLINNVOILINGSPVTÄDERCNRVRLEDNILG. SVVOHPRVR: 107 21: LAKETIEKENSLINNVOILINGSPVTÄDERCNRVRLEDNILG. SVVOHPRVR: 71 57: LAKETIEKENSLITNVOILINGSPVTÄDERCNRVRLEDNILG. SVVOHPRVR: 71 61: LAKETIEKENPSINBVPTENVOILINGSPVTÄDERCNRVRLEDNILG. DVVOHPRVR: 71 61: LAKETIEKENPSITNBVPTENGEPVTÄDERCNRVRLEDNILG. DVVOHPRVT: 111 57: FAMØLI ØKENPRETTNVOTTBLINGGEVTEDLERCNRVRLEDNILG. FWVOTPRETC: 73 27: DAKKVILKØKP. DADBVRITNVOTREDERRYREFVÜT VAQTPRETC: 73
StPOTIB X67950 P01052 M17108 StPOTIA K03290 Z12619 X78988	StPOTIB 5: X67950 55 P01052 22 M17108 5: StPOTIA 65 K03290 6: Z12619 5: X78988 2:
[SEQ ID NO:77] [SEQ ID NO:78] [SEQ ID NO:78] [SEQ ID NO:80] [SEQ ID NO:81] [SEQ ID NO:82] [SEQ ID NO:83] [SEQ ID NO:84]	

Figure 24



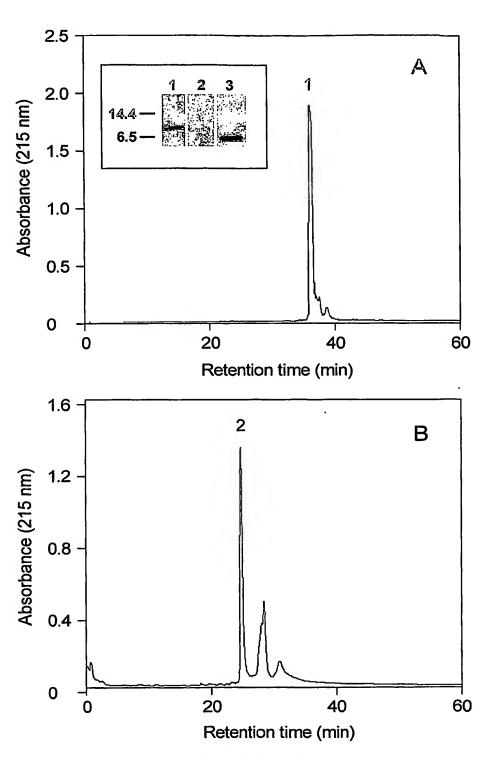


Figure 25

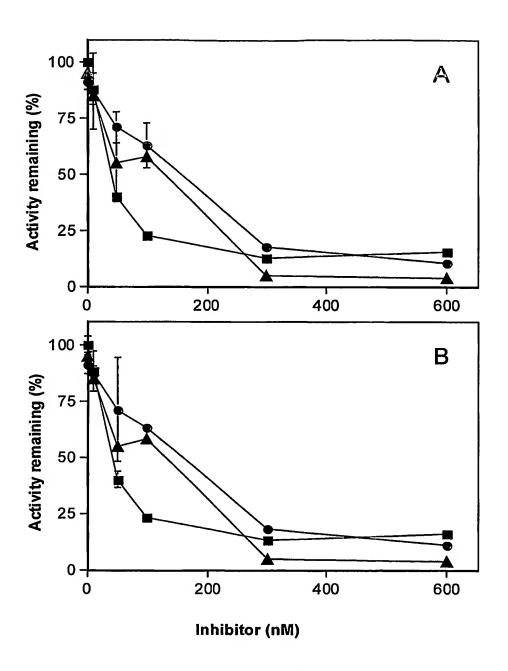


Figure 26

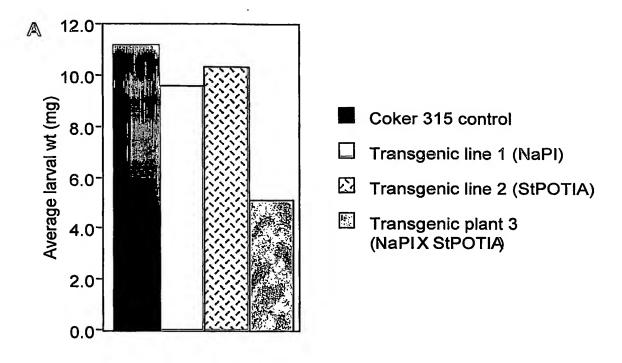


Figure 27A

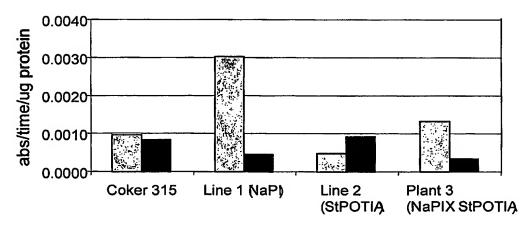


Figure 27B

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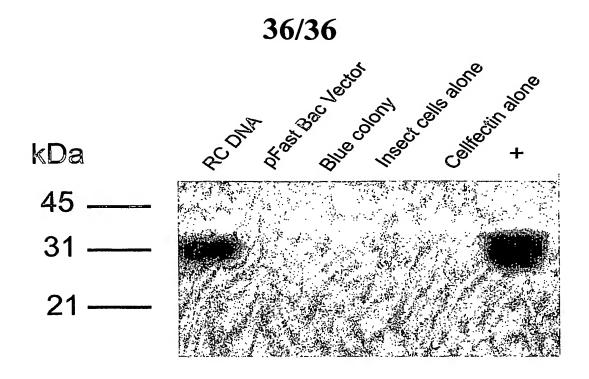


Figure 29A

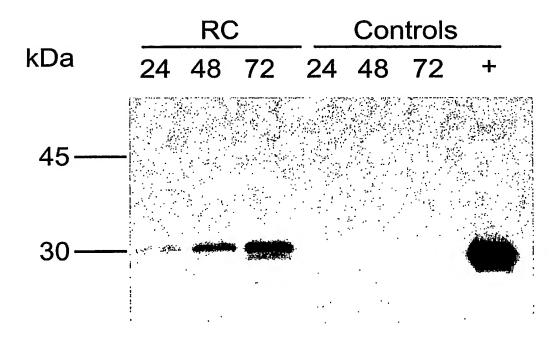


Figure 29B

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